CLAIMS LISTING

- 1. (original) A stimulable phosphor screen or panel comprising a phosphor layer and a support characterized in that an intermediate layer arrangement of an X-ray absorbing foil or layer and, farther from the support, a stimulated light reflecting foil is present between said support and said phosphor layer.
- 2.(currently amended) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises an X-ray absorbing layer, wherein as a lead compound an oxide or a hydroxide of lead metal is dispersed in a binder and wherein said binder containing the lead compound is a matrix of a polycondensation product of a metal alkoxide species wherein said intermediate layer arrangement comprises an X-ray absorbing layer comprising a binder wherein said binder is a matrix of a polycondensation product of a metal alkoxide species, and an oxide or a hydroxide of lead metal is dispersed in said binder.
- 3.(original) A stimulable phosphor screen or panel according to claim 2, wherein said binder containing the lead compound is a matrix of an inorganic network of alkoxymetal substituted organic polymers or copolymers matrix.

- 4. (original) A stimulable phosphor screen or panel according to claim 3, wherein said matrix is derived from a cross-linking agent selected from the group consisting of dialkoxysilanes, trialkoxysilanes, tetraalkoxysilanes, titanates, zirconates and aluminates; and a colloid of silica, and wherein said matrix comprises a colloid of an oxide or a hydroxide of lead metal.
- 5.(original) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises, as an X-ray absorbing layer a layer of lead.
- 6.(original) A stimulable phosphor screen or panel according to claim 1, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 7.(original) A stimulable phosphor screen or panel according to claim 2, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 8.(original) A stimulable phosphor screen or panel according to claim 3, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 9.(original) A stimulable phosphor screen or panel according to claim 4, wherein as a stimulated light reflecting foil an aluminum layer is present.

- 10. (original) A stimulable phosphor screen or panel according to claim 5, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 11. (original) A phosphor screen or panel according to claim 1, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.
- 12. (original) A phosphor screen or panel according to claim 6, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.
- 13. (original) A phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 14. (original) A phosphor screen or panel according to claim 6, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 15. (original) A phosphor screen or panel according to claim 11, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.

- 16. (original) A phosphor screen or panel according to claim 12, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 17. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 18.(original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 19.(original) A phosphor screen or panel according to claim 11, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 20.(original) A phosphor screen or panel according to claim 12, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 21. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 22. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.

- 23. (original) A phosphor screen or panel according to claim 11, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 24. (original) A phosphor screen or panel according to claim 12, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 25. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 26. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 27. (original) A phosphor screen or panel according to claim 11, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 28. (original) A phosphor screen or panel according to claim 12, having between said intermediate layer arrangement and the

- phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 29. (original) A phosphor screen or panel according to claim 1, wherein said phosphor is a binderless phosphor, having needle-shaped crystals.
- 30.(original) A phosphor screen or panel according to claim 6, wherein said phosphor is a binderless phosphor, having needle-shaped crystals.
- 31.(original) A phosphor screen or panel according to claim 11, wherein said phosphor is a binderless phosphor, having needle-shaped crystals.
- 32.(original) A phosphor screen or panel according to claim 12, wherein said phosphor is a binderless phosphor, having needle-shaped crystals.
- 33.(original) A binderless stimulable phosphor screen or panel according to claim 29, wherein said needle-shaped phosphor crystals are crystals of an alkali metal phosphor.
- 34.(original) A binderless stimulable phosphor screen or panel according to claim 30, wherein said needle-shaped phosphor crystals are crystals of an alkali metal phosphor.

- 35. (original) A binderless stimulable phosphor screen or panel according to claim 31, wherein said needle-shaped phosphor crystals are crystals of an alkali metal phosphor.
- 36. (original) A binderless stimulable phosphor screen or panel according to claim 32, wherein said needle-shaped phosphor crystals are crystals of an alkali metal phosphor.
- 37. (original) A binderless stimulable phosphor screen according to claim 29, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 38.(original) A binderless stimulable phosphor screen according to claim 30, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 39. (original) A binderless stimulable phosphor screen according to claim 31, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 40.(original) A binderless stimulable phosphor screen according to claim 32, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.

- 41. (original) A binderless stimulable phosphor screen according to claim 33, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 42. (original) A binderless stimulable phosphor screen according to claim 34, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 43. (original) A binderless stimulable phosphor screen according to claim 35, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 44. (original) A binderless stimulable phosphor screen according to claim 36, wherein said alkali metal phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.